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**STATEMENT CLAIMING SMALL ENTITY STATUS
(37 CFR 1.9(f) & 1.27(c))--SMALL BUSINESS CONCERN**

Docket Number (Optional)
200-10(CIP)

Applicant, Patentee, or Identifier: Robert LEIFER, et al.

Application or Patent No.:

Filed or Issued: concurrently herewith

Title: LIGHT APPARATUS FOR ILLUMINATING A COMPACT COMPUTER VIDEO SCREEN

I hereby state that I am

- ☐ the owner of the small business concern identified below;
- ☒ an official of the small business concern empowered to act on behalf of the concern identified below;

NAME OF SMALL BUSINESS CONCERN Arista Interactive LLC

ADDRESS OF SMALL BUSINESS CONCERN 125 Commerce Drive, Hauppauge, NY 11788

I hereby state that the above identified small business concern qualifies as a small business concern as defined in 13 CFR Part 121 for purposes of paying reduced fees to the United States Patent and Trademark Office. Questions related to size standards for a small business concern may be directed to Small Business Administration, Size Standards Staff, 409 Third Street, SW, Washington, DC 20416.

I hereby state that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention described in:

- ☒ the specification filed herewith with title as listed above,
☐ the application identified above,
☐ the patent identified above.

If the rights held by the above identified small business concern are not exclusive, each individual, concern, or organization having rights in the invention must file separate statements as to their status as small entities, and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern, or organization having any rights in the invention is listed below:

- ☒ no such person, concern, or organization exists.
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Separate statements are required from each named person, concern or organization having rights to the invention stating their status as small entities. (37 CFR 1.27)

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate (37 CFR 1.28(b)).

NAME OF PERSON SIGNING Robert Leifer

TITLE OF PERSON IF OTHER THAN OWNER Vice President

ADDRESS OF PERSON SIGNING 125 Commerce Drive, Hauppauge, NY 11788

SIGNATURE

DATE July 16, 2006

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RELATED APPLICATION INFORMATION

This application is a Continuation-In-Part of U.S. Patent Application Serial No.

09/567,245 filed on May 9, 2000, pending.

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to hand held video games, and more particularly, to a combined light/magnifier assembly for the hand held video games devices for enhancing the viewing experience during game playing.

2. Description of the Related Art

Compact computers and video game devices having video viewing screens are becoming more and more popular and typically comprise hand-held portable, battery-operated devices. The viewing screen is typically a liquid crystal display (LCD) that is generally flat and displays information and or provides the screen for playing video games. Such compact computers and video games may include, but are not limited to: calculators, computer video games, lap top computers, and other computers where a variety of software is employed. In particular, compact video games, such as the compact video game systems known as GAME BOY™, GAME BOY POCKET™ and GAME BOY COLOR™ (Trademarks of Nintendo of America), are completely self-sustained video game systems which may be operated by interchangeably employing a collection from a library of software game packs. These Nintendo video game systems provide a compact, self-contained, battery-operated, portable hand-held

computer with a cross key joy stick (directional-pad or D-pad) to operate the game start and select buttons, action buttons and an LCD-type screen, together with volume controls so as to display and enable the user to display images and play games.

While video display screens are employed and typically include a flat LCD-type
5 screen, such LCD-type display screens are often difficult to observe by the user in partial or low light conditions, such as, for example, automobiles, planes, trains, buses, and the like due to the lack of illumination on the LCD screen to permit suitable contrast during use.

U.S. Patent Nos. 5,091,832 and 5,325,280 show a light apparatus for use with
compact computer screens. As shown and described, the body includes an open video space
designed to be the same size as the LCD video screen of the compact computer apparatus. The
body includes a pair of sloped or angled white colored side panels and a top and bottom side panel
and the white or light colored extending directly generally perpendicular to the video screen rather
than sloped as illustrated for the side panels. The top side panel is integral with and extends from
the bottom molded section of the body when the body sections are matingly engaged to form the
body, the top panel with the panels on the top section then form a rectangular, open video viewing
space of the apparatus.

The light apparatus includes a pair of light bulbs placed on either side of sloping
panels and which side panels also include a short, solid, upward extending light shield so as to
prevent the direct glare of the light bulbs onto the LCD screen and to provide for indirect lighting
20 through reflection on the light-colored side panels onto the LCD viewing screen.

U.S. Patent Nos. 5,117,339 and 5,165,779 disclose combined light and magnifier
devices for hand-held computers with video screens. Each of these patents show a battery
operated light assembly that is mounted to a separate assembly mounted adjacent the view screen

and spaced from the magnifier lens. The devices shown in these patents are adapted to provide a screen magnifier while also providing additional light to the screen for playing in low light conditions.

Unfortunately, the use of an LCD screen in these hand-held video game devices makes the illumination of the same difficult. The primary reason for this difficulty is due to the fact that the plastic cover to the actual LCD screen is generally of a high-gloss finish, and as such has a tendency to reflect light. This reflection of light primarily occurs when the light shines substantially directly onto the screen, and thus, the high-gloss screen cover prevents the light from penetrating the cover and thereby illuminating the LCD screen.

In all of the aforementioned patents, the lighting assembly utilizes light sources which are oppositely positioned within the solid frame surrounding the viewing screen. The use of white or light colored frame sides is implemented in an effort to diffuse the light before projected onto the screen, however, neither the white or light colored sides of the frame prevent spotting or "hot spots" caused by the illumination of the incandescent bulb immediately adjacent the viewing screen. As such, the incandescent bulb, in the area of disposition, causes a glare spot or "hot spot" on the high-gloss cover to the actual LCD display screen. Thus, the user's view is obstructed and not increased in these hot spot areas. Furthermore, dark spots are created on the screen where the additional light is not effectively distributed across the screen. In view of these drawbacks of the prior art patents, it would be desirable to provide a lighting assembly for a hand-held computer gaming device that does not have any screen "hot spots" or dark spots, and actually works to increase the viewing of the display screen.

SUMMARY OF THE INVENTION

It is therefore an object of the invention to provide an improved lighting assembly for hand-held video games that does not cause "hot spot" or other glaring effects from the use of light source to illuminate the LCD display.

5 It is yet another object of the invention to provide an improved lighting assembly for hand-held video games that effectively utilizes reflection techniques to efficiently illuminate the LCD display screen of the game device.

This and other objects are achieved in accordance with an embodiment of the present invention in which an improved light assembly for use in enhancing the view of a compact computer video screen comprises: a frame opening corresponding in size to a size of the compact computer video screen; a directional light source disposed in a side of the frame opening for projecting a substantially collimated light beam toward an opposing side of said frame opening, said directional light source being recessed within said frame side so as to not extend into said frame opening; and a curved reflective surface disposed entirely across said opposing side of said frame opening and adapted to reflect the received collimated light beam in a substantially evenly diffused configuration toward the video screen, wherein said curved reflective surface is recessed into said frame so as to not extend into said frame opening.

In accordance with another embodiment of the invention, the magnifying light assembly includes a frame opening substantially corresponding in size to the size of the compact computer video screen; a light source disposed in a side of the frame opening for projecting light toward an opposing side of said frame opening; and an adjustable flat reflective surface disposed at the opposing side of the frame opening and adapted to reflect the received light in a substantially evenly diffused configuration toward the video screen. The reflective surface can be

curved, but is preferably flat such that it is angularly adjustable so as to provide the adjustable positioning of the flat reflective surface.

Other objects and features of the present invention will become apparent from the following detailed description considered in conjunction with the accompanying drawings. It is to be understood, however, that the drawings are designed solely for purposes of illustration and not as a definition of the limits of the invention, for which reference should be made to the appended claims. It should be further understood that the drawings are not necessarily drawn to scale and that, unless otherwise indicated, they are merely intended to conceptually illustrate the structures and procedures described herein.

BRIEF DESCRIPTION OF THE DRAWINGS

In the drawings wherein like reference numerals denote similar elements throughout the several views:

Figure 1 is a perspective view of the improved lighting assembly according to an
5 embodiment of the invention;

Figure 2 is a cross-sectional view of the improved lighting assembly taken along
lines II-II of Figure 1;

Figure 3a is a sectional view of the improved lighting assembly according to a
first embodiment of the invention;

Figure 3b is a sectional view of the improved lighting assembly according to a
second embodiment of the invention;

Figure 4 is a side view of the improved lighting assembly as implemented into a
combined light and magnifier for the hand held video game device according to a third
embodiment of the invention;

Figure 5 is a side partial cross sectional view of the improved lighting assembly
according to a fourth embodiment of the invention;

Figure 6 is a side partial cross sectional view of the improved lighting assembly
according to a fifth embodiment of the invention;

Figure 7 is a side partial cross sectional view of the improved lighting assembly
according a sixth embodiment of the invention;

Figure 8 is perspective view of a combined lighting assembly/magnifier
according to a seventh embodiment of the invention;

Figure 9 is a rear perspective view of a combined lighting assembly/magnifier according to the seventh embodiment of the invention;

Figure 10 is a partial view of the underside of the reflector housing of the combined lighting assembly/magnifier according to the seventh embodiment of the invention;

5 Figure 11 is a partial cross-sectional view of the combined lighting
assembly/magnifier taken along line XI-XI of Figure 8; and

Figure 12 is a partial cross-sectional view of the combined lighting assembly/magnifier according to another embodiment of the invention.

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DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

Referring to Figure 1, there is shown the improved light assembly system 100 according to a first embodiment of the invention. Light assembly 102 is slidably disposed on the hand-held video game device 104 as shown and described in U.S. Patent Nos. 5,091,832 and 5,325,280, both of which are incorporated herein by reference. Light assembly 102 includes an upper and lower frame opening 109a and 109b, respectively, that form an overall frame 108 that is substantially dimensioned according to the dimensions of the underlying display screen 106 on game device 104.

Light assembly 102 includes a power on/off switch 110, a battery compartment 112 and an access panel 114 for allowing the replacement of the enclosed batteries (not shown). In subsequent embodiments, the use of an on/off switch and battery compartment are eliminated. Figure 2 shows a cross-section of the frame 108 taken along lines II-II in Figure 1. As shown, frame 108 includes has a substantially C-shaped cross-section and includes a light source 120 recessed into the frame and positioned so as to not protrude into the viewing area formed by upper and lower openings 109a and 109b. According to a preferred embodiment, upper frame opening 109a is smaller than the lower frame opening 109b by an offset distance S_1 . This offset between the upper frame opening 109a and lower frame opening 109b prevents light from escaping upward beyond the upper frame opening 109a, regardless of the light source implemented. The different size frame openings are especially effective when incandescent light sources are used as light source 120. By increasing the opening size of the lower frame opening 109b, the light reflected by curved reflective surface 122 that is already is angled toward the lower frame opening now has an opening of increased size through which the light is received onto the video screen 106. The video screen 106 may be a liquid crystal display, a plasma display, a mini CRT, or any

other type of video screen. Those of skill in the art will recognize that any other type of video screen may be used in the game device 104 without departing from the spirit of the invention.

The light source 120 is preferably a directional light source such as a directional light emitting diode (LED) and/or an incandescent light bulb having a collimating lens for directing the output light toward the opposing side of the frame 108 with as little dispersion prior to contacting the opposing side of the frame 108.

Opposite light source 120 is a curved reflective surface 122 adapted to reflect the received light back toward light source 120 and reflective surface 124 and down toward screen 106. The angle of curvature is preferably within a range of 45 – 90 degrees with respect to the received collimated light beam. For example, curved reflective surface 122 is a partial or approximately 1/8 tubular section as shown. The top portion near upper frame opening 109a is angled at approximately 90 degrees with respect to the light beam, effectively reflecting light back toward light source 120 and reflective surface 124. The bottom portion of surface 122 near lower frame opening 109b is angled at approximately 45° with respect to the light beam, thereby reflecting light directly downward toward screen 106. Between the top and bottom portions, curved reflective surface 122 curves continuously between the 90° and the 45° angled portions. This variably curving central section of surface 122 reflects light onto screen 106 at a correspondingly broad range of angles thereby eliminating glare from almost any viewing angle. In this manner, the received collimated light beam is variably and angularly directed toward the display screen 106 of the game device.

In addition, a reflective surface 124 is disposed entirely around directional light source 120 and extends across the entire respective internal side of frame 108. Figure 3a shows the disposition of reflective material 124 along the entire inside surface of frame 108 within which

light source 120 is disposed. A hole 125 in reflective material 124 is provided to accommodate light source 120.

The reflective material implemented for materials 122 and 124 is preferably a mylar reflective material, but may also be any suitable known reflective material, and must be at least capable of being curved as depicted with reflective material 122.

As diagrammatically shown in Figure 2, when directional light source 120 is illuminated, it projects a substantially collimated beam of light toward reflective surface 122. The collimation of light source 120 is provided by the previously mentioned directional LED, or may be provided through the use of an appropriate lens. An attribute of the light source 120 is that the light emanating therefrom does not disperse or come into contact with display screen 106 prior to being received by the opposing reflective surface 122.

Due to the curvature of reflective surface 122, some of the received light from light source 120 is reflected downward toward display screen 106 at various different angles, while other portions of the received light are reflected back toward the surface on which light source 120 is disposed. Thus, the additional reflective material 124 positioned around light source 120, shown in Figure 3a, serves to further reflect light back toward the curved reflective surface 122. In this manner, the directional light originating from light source 120 is reflected at least once and potentially several times before the light is ultimately directed toward the display screen 106. Thus, when the light reaches the display screen 106, it is substantially diffused and thereby effectively illuminates display screen 106 more evenly and without any possibility of hot spots or glare spots as experienced with the lights of the prior art.

Figure 3b shows an alternative embodiment of the present invention wherein two light sources 130a and 130b are used, and two corresponding holes 135a and 135b are disposed in the reflective material 132 surrounding these light sources.

Figure 4 shows another embodiment of the lighting system of the present invention as incorporated into a display screen magnifier. Magnifiers of this type are disclosed in U.S. Patent Nos. 5,117,339, 5,119,239 and 5,165,779, all of which are incorporated herein by reference. The magnifier 142 connects to the game device 104 such that a frame 144 is disposed a predetermined distance D_1 from the upper surface of the game device 104. Generally, a magnifying lens 140 is disposed within frame 144 so as to provide a magnified view of display screen 106 for the user. Frame 144 is made up of an upper frame opening 146a and lower frame opening 146b. As described with respect to the embodiment shown in Figure 2, upper frame opening 146a is slightly smaller than lower frame opening 146b and thereby acts to block light from dispersing upward and out of the frame opening, while the larger lower frame opening 146b provides more area for the light to disperse and be reflected downward. As shown, the lighting system of the present invention is integrated into frame 144. Thus, when directional light source 120 is illuminated, the light beams are directed toward reflective surface 122, and are ultimately reflected downward by said reflective surface. As discussed previously, an additional surface of reflective material 124 is positioned around light source 120 and provides an additional surface from which light may reflect.

The use of the directional light source 120 in combination with the curved reflective surface 122 and oppositely positioned reflective surface 124 causes the light emanating from light source 120 to be reflected and re-reflected before ultimately being directed toward display screen 106. It is this reflection and re-reflection that results in a more diffused light being

imposed on display screen 106. The diffused light is more evenly dispersed across the screen and does not cause hot spots, glare spots or dark spots on the high-gloss cover of the display screen 106.

Figure 5 shows another embodiment of the present invention in which a light assembly 143 does not contain a power source, but rather includes a plug 160 for electrically connecting the link port 150 to the lighting assembly 143. In addition, the lighting assembly 143 is raised from game device 104 by a distance D_2 that is either predetermined or user settable. There is no magnifying lens in either frame opening 146a and 146b, and thus the distance D_2 provides a wider dispersion angle for the light generated by the lighting assembly in reaching the display screen 106. The game device 104 includes a volume control dial 152 and an external link port 150 that can be used to connect the game device to other game devices for head to head game playing. Link port 150 can also be used to provide power to the lighting assembly 143 by inserting plug 160 that is electrically connected to the lighting assembly. In this manner, lighting assembly 143 can be powered using the battery power contained within game device 104 and does not require its own battery supply or on/off switch. Thus, when the game device is powered on, the power supply to link port 150 is automatically provided, thereby automatically powering the lighting assembly 143. The use of an on/off switch in this embodiment is may be an option provided by the manufacturer.

Figure 6 shows another embodiment of lighting assembly 143 where the upper frame opening 164a and lower frame opening 164b are the same size. In this embodiment, it is not necessary for light source 120 and curved reflective surface 122 to be completely recessed into the frame 144. As such, light source 120 and curved reflective surface 122 may extend into the opening formed by upper and lower frame openings 164a and 164b, respectively.

Figure 7 shows yet another embodiment of lighting assembly 142 wherein frame 170 does not have a C-shaped cross-section. Thus, light source 120 and curved reflective surface 122 are disposed between upper frame opening 164a and lower frame opening 164b without necessarily being recessed into the respective side of the frame 144.

5 Referring to Figures 8 - 11, there is shown a combined light/magnifier 200 according to another embodiment of the invention. As shown, the combined light/magnifier 200 includes a base portion 202 for releasably connecting the light/magnifier to the game device 5. An upper frame like portion 206 is raised from the base portion 202 by an upward extension 204. Within frame 206 is a magnifying lens 208. According to one embodiment, the frame 206 with lens 208 can be pivotally connected to upward extension 204 by a hinge 214 and thereby rotate along axis 215. In addition, the upward extension 204 can be pivotally connected to base portion 202 by a hinge 212 and thereby rotate about axis 213. The power supply for light/magnifier 200 can be internal to the device (i.e., its own battery) or can be provided via the link port 150 as described in the previous embodiments.

10 Base portion 202 includes an optional on/off switch 232, a window 230 to accommodate various features of the game devices (e.g., IR window, on/off switch), and may also include an external jack 238 adapted to provide the user with access to the link port 150 of the game device (Figure 7), while the combined light/magnifier 200 utilizes such port for power supply.

15 A light source 220 is provided within frame 206 as described in the previous embodiments. A flat reflective surface 222 is disposed within reflector housing 210 and positioned opposite light source 220. The reflective surface 222 is preferably flat and is preferably pivotally mounted 225 so as to be angularly adjustable with respect to the light source

220 and the display screen 7. Reflective surface 222 may also be fixed with respect to light source 220, with positioned adjustment being provided through the respective hinge connections between portions. The pivotal mounting 225 rotates about the axis 223 shown in Figure 10. The pivotal movement of reflector 222 can be made by the user through manual movement of the reflector, or alternatively, the pivotal mounting 225 can be connected to an external lever or dial to provide for easier adjustment. As shown in Figures 10 and 11, the snake tongue 224 or even a fang could be connected to the pivotal mounting 225 such that movement of the flat reflector 222 is effected by movement of the corresponding tongue or fang. The snake eyes 226 are also shown and may be adapted to light up in a particular color based on the colors used to create eyes. This lighting of the eyes could be provided with a light pipe, fiber optic line or other known means for providing light to the eye area.

Referring to Figure 11, when light source 220 is illuminated, it directs light across the frame and directly at reflective surface 222. The reflective surface 222 reflects the light toward the display screen 7 and thereby effectively illuminates the screen in an even and diffused manner. As mentioned previously, the light source 222 is preferably directional in nature, thereby enabling the substantial directing of the light toward the reflective surface 222. Reflective surface 222 can be any suitable known flat reflector such as, for example, a mirror, reflective mylar, hot stamped chrome, etc.

Figure 12 shows another embodiment of combined light/magnifier 200 according to the invention. As shown, light source 220 has been relocated to the upward extension 204 and directed at reflective surface 220 so as to redirect the reflected light onto display screen 7. The pivotal mounting 225 of reflective surface 222 is positioned on the end of the housing 210 such that the cobra tongue 224 or other device is used to adjust the angle at which reflective surface

222 is positioned with respect to light source 220 and display screen 7. Other contemplated devices for enabling the pivot motion of the reflective surface 222, other than the tongue 224, can be, for example, an animal or insect in the mouth of the cobra designed snake. Those of ordinary skill will recognize that the location of light source 220 and pivotal mounting 225 of reflective surface 222 can be modified without departing from the spirit of the invention.

As shown, combined light/magnifier 200 is generally in the shape of a cobra snake. This depiction of a cobra snake is an exemplary embodiment and is not intended to limit the scope of this invention. Those of ordinary skill will also recognize that the light technology disclosed herein can be implemented into devices of varying shapes and sizes without departing from the spirit of the present invention.

While there have been shown and described and pointed out fundamental novel features of the invention as applied to preferred embodiments thereof, it will be understood that various omissions, substitutions, changes in the form and details of the devices illustrated, and in their operation, may be made by those skilled in the art without departing from the spirit of the invention. For example, it is expressly intended that all combinations of those elements and/or method steps which perform substantially the same function in substantially the same way to achieve the same results are within the scope of the invention. It is the intention, therefore, to be limited only as indicated by the scope of the claims appended hereto.

CLAIMS

What is claimed is:

1. A combined light/magnifier assembly for use in enhancing the view of a video screen of
5 a compact computer device, the light/magnifier comprising:

a frame having a frame opening adapted to be positioned over the video screen;

a magnifying lens disposed within said frame opening;

a light source; and

a reflective surface positioned to reflect light received from said light source
10 toward the video screen.

2. The combined light/magnifier assembly according to claim 1, wherein said reflective
surface comprises a flat reflective surface.

3. The combined light/magnifier assembly according to claim 1, wherein said reflective
15 surface comprises a curved reflective surface.

4. The combined light/magnifier assembly according to claim 1, further comprising power
supply means for supplying the light source with electrical current.

20 5. The combined light magnifier assembly according to claim 4, wherein said power
supply means comprises a plug electrically adapted to be releasably connected to a link port of the
compact computer device.

6. The combined light/magnifier assembly according to claim 4, wherein said power supply means comprises:

a battery compartment;

a battery power source;

an on/off power switch; and

electrical circuitry adapted to connect said battery power to said light source in response to a position of said power switch.

7. The combined light/magnifier assembly according to claim 1, wherein said light source comprises a directional light source for projecting light toward said reflective surface.

8. The combined light/magnifier assembly according to claim 1, wherein said light source comprises an incandescent light.

9. The combined light/magnifier assembly according to claim 3, further comprising an additional reflective surface disposed opposite said curved reflective surface across said frame opening for further reflecting light reflected from said curved reflective surface back toward said curved reflective surface.

10. The combined light/magnifier assembly according to claim 2, wherein said flat reflective surface is pivotally mounted to said frame.

11. The combined light/magnifier assembly according to claim 3, wherein said curved reflective surface is pivotally mounted to said frame.

12. The combined light/magnifier assembly according to claim 5, further comprising an on/off power switch electrically connected to said power supply means and said light source for selectively providing power to said light source.

13. A combined light/magnifier assembly for use in enhancing the view of compact computer video screen, the compact computer device having a power supply, an on/off power switch and a link port adapted to connect the compact computer device to another compact computer device, the combined light/magnifier comprising:

a frame having a frame opening formed from an upper frame opening and a lower frame opening, said frame opening being positionable over the video screen;

a magnifying lens disposed within said upper frame opening;

a light source disposed at a side of said frame for projecting light toward an opposing side of said frame; and

a reflective surface disposed at said opposing side and adapted to receive and reflect light from said light source toward the video screen.

14. The combined light/magnifier assembly according to claim 13, further comprising power supply means for selectively supplying said light source with electrical current.

15. The combined light/magnifier assembly according to claim 13, wherein said reflective surface comprises a flat reflective surface.

16. The combined light/magnifier assembly according to claim 13, wherein said reflective surface comprises a curved reflective surface.

17. The combined light/magnifier assembly according to claim 14, wherein said power supply means comprises a plug electrically connected to the combined light/magnifier and adapted to be releasably connected to the link port of the computer device to obtain electrical current from the power supply of the compact computer device.

18. The combined light/magnifier according to claim 14, wherein said power supply means comprises:

a battery compartment;

a battery power source;

an on/off power switch; and

electrical circuitry adapted to connect said battery power to said light source in response to a position of said power switch.

19. The combined light/magnifier according to claim 15, wherein said flat reflective surface comprises a mirror.

20. The combined light/magnifier according to claim 15, wherein said flat reflective surface comprises reflective mylar.

21. The combined light/magnifier according to claim 15, wherein said flat reflective surface comprises hot stamped chrome.

22. The combined light/magnifier according to claim 13, wherein said light source comprises a directional light source.

23. The combined light/magnifier according to claim 15, wherein said flat reflective surface is pivotally mounted to said frame.

24. The combined light/magnifier according to claim 16, wherein said curved reflective surface is pivotally mounted to said frame.

25. The combined light/magnifier according to claim 13, wherein said light source is disposed within said frame opening between said upper and lower frame openings, and said reflective surface is disposed between said upper and lower frame openings.

26. The combined light/magnifier assembly according to claim 14, further comprising an on/off power switch electrically connected to said power supply means and said light source for selectively providing power to said light source.

27. A combined light/magnifier assembly for use in enhancing the view of compact computer video screen, the compact computer device having a power supply, an on/off power switch and a link port adapted to connect the compact computer device to another compact computer device, the combined light/magnifier comprising:

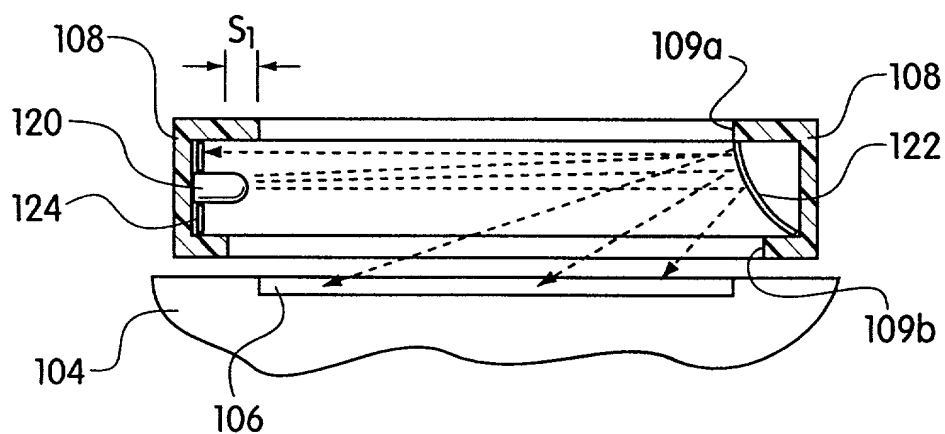
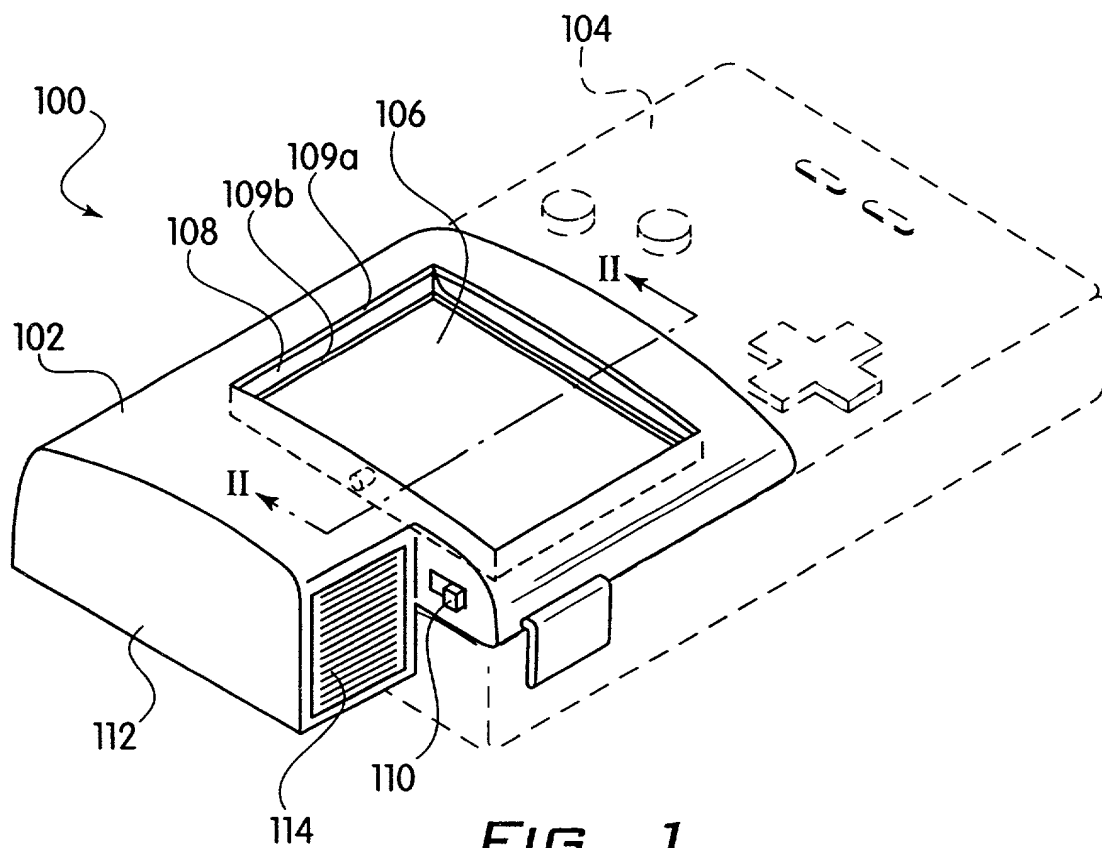
- 5 a frame having a frame opening being positionable over the video screen;
- a magnifying lens disposed within said frame opening;
- a light source for projecting light in a predetermined direction; and
- a reflective surface positioned in a path of said predetermined direction to receive and reflect light from said light source toward the video screen.

28. The combined light/magnifier assembly according to claim 27, further comprising power supply means for selectively supplying said light source with electrical current.

29. The combined light/magnifier assembly according to claim 27, wherein said light source comprises an directional light source.

ABSTRACT OF THE DISCLOSURE

A combined magnifier/lighting apparatus for hand held video games utilizes a directional light source and an angularly adjustable flat reflective surface disposed opposite the directional source in a frame spaced from the display screen of the hand held device. The use of a directional light source and the adjustable flat reflective material provides an increased and more diffused lighting effect while eliminating the otherwise experienced hot spots or dark spots common in prior art light assemblies.



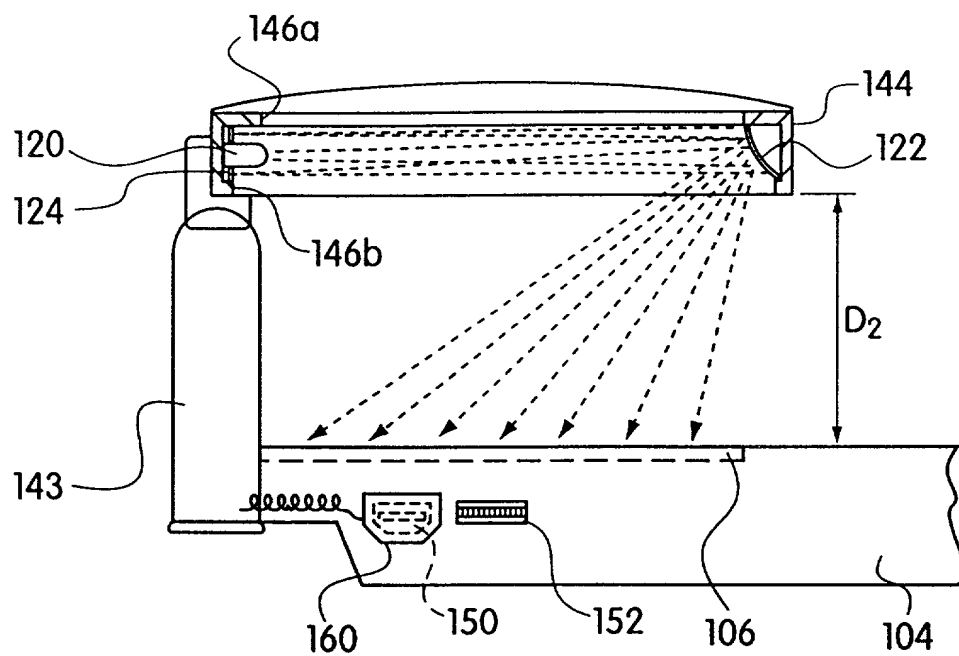


FIG. 5

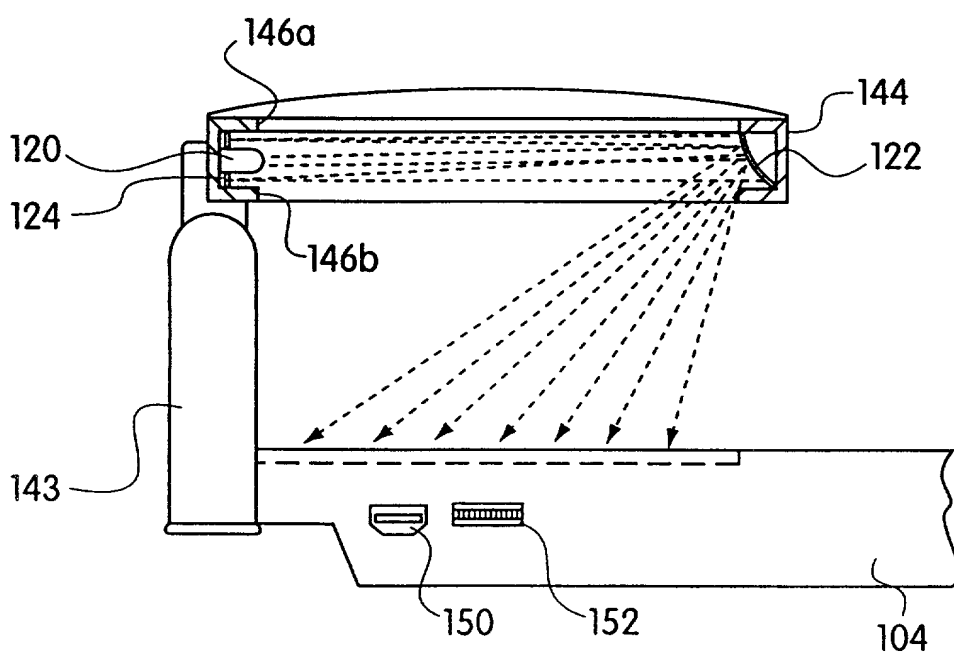


FIG. 6

00E720"4955T960

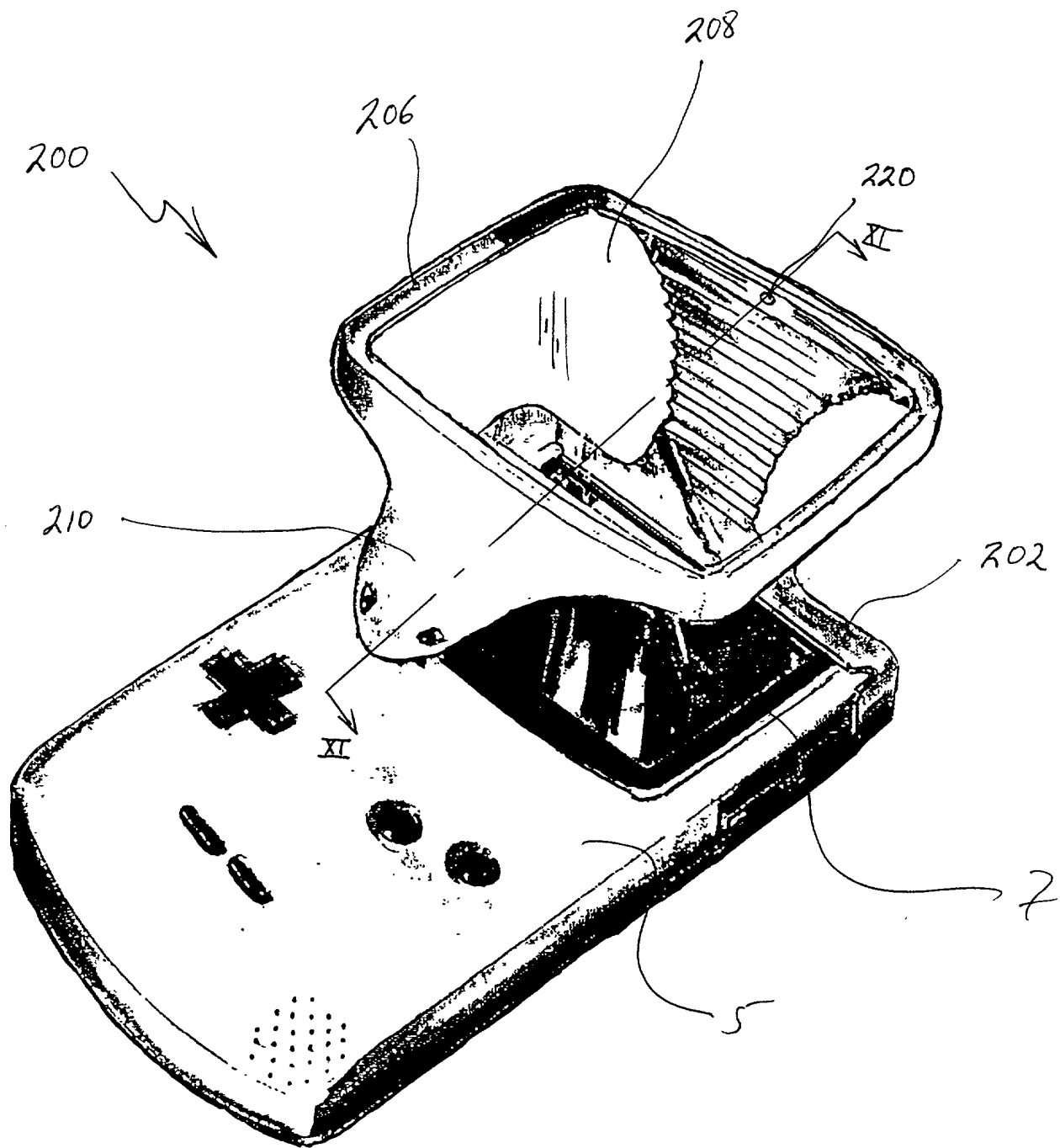


FIG. 8

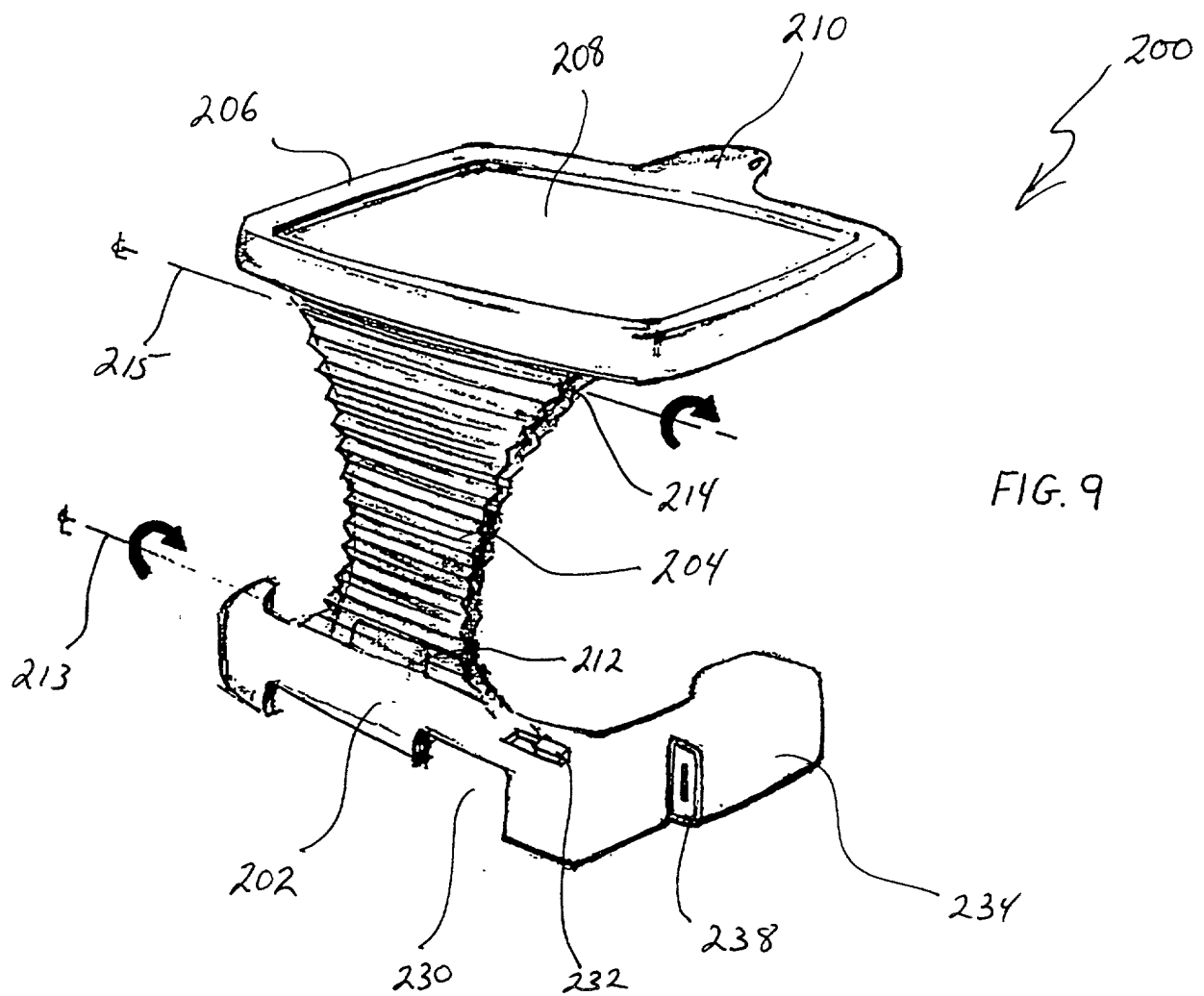


FIG. 9

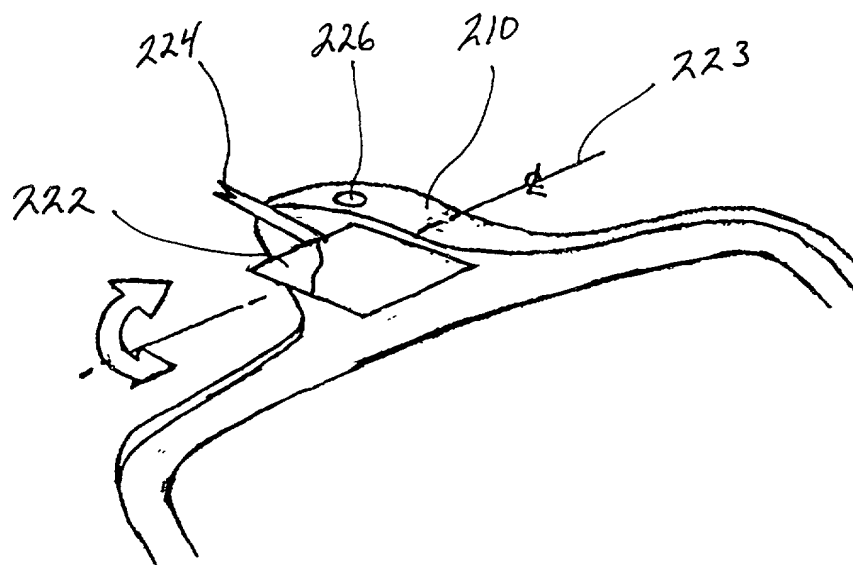


FIG. 10

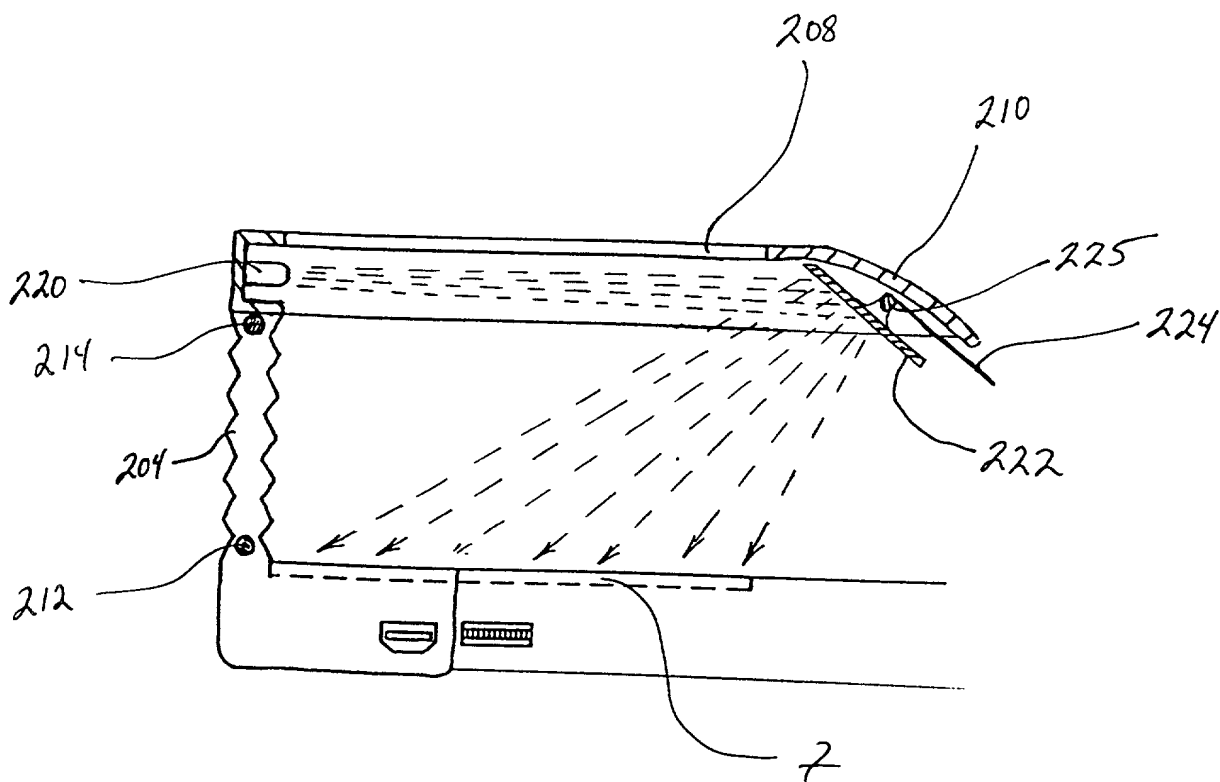


FIG. 11

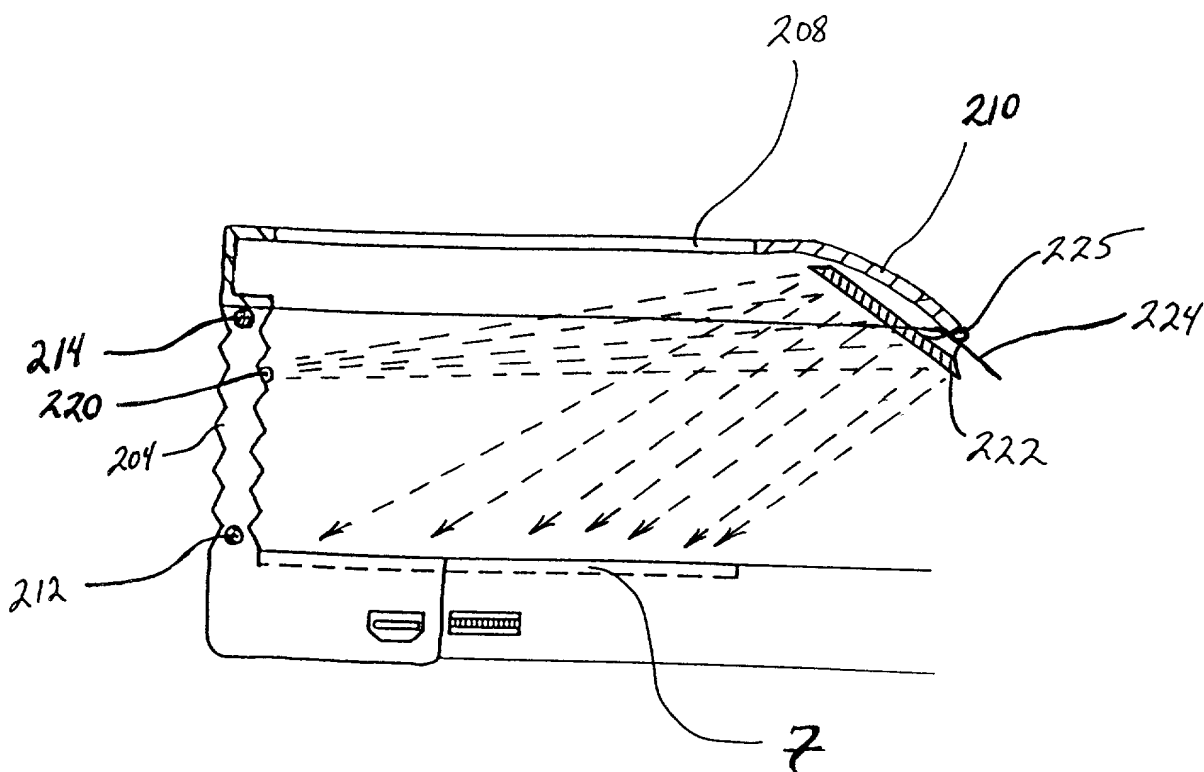



FIG. 12

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DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) <input checked="" type="checkbox"/> Declaration Submitted with Initial Filing OR <input type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	Attorney Docket Number	200-10(CIP)
	First Named Inventor	Robert LEIFER
	COMPLETE IF KNOWN	
	Application Number	/
	Filing Date	concurrently herewith
	Group Art Unit	
	Examiner Name	

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

LIGHT APPARATUS FOR ILLUMINATING A COMPACT COMPUTER VIDEO SCREEN

the specification of which ☒ is attached hereto OR ☐ was filed on (MM/DD/YYYY) _____ as United States Application Number or PCT International Application Number _____ and was amended on (MM/DD/YYYY) _____ (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)

☐ Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

(Page 1 of 2)

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I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.55 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and Trademark Office connected therewith:

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OR

☐ Registered practitioner(s) name/registration number

Name	Registration Number



24336

PATENT TRADEMARK OFFICE

☐ Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.

Direct all correspondence to: ☒ Customer Number or Bar Code Label 24336 OR ☐ Correspondence address below

Name					
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Address					
City		State		ZIP	
Country		Telephone		Fax	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle (if any))		Family Name or Surname	
Robert		LEIFER	
Inventor's Signature			Date
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Post Office Address	22 Durham Drive		
Post Office Address			
City	Dix Hills	State	NY
		ZIP	11746
		Country	U.S.A.

☐ Additional inventors are being named on the _____ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto

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DECLARATION

ADDITIONAL INVENTOR(S)

Supplemental Sheet

Page 1 of 1

Name of Additional Joint Inventor, if any:

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle (if any))

Family Name or Surname

Gabe

NEISER

Inventor's
Signature

Date

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Family Name or Surname

Inventor's
Signature

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Residence: City

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Name of Additional Joint Inventor, if any:

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Inventor's
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